

Breadcrumb

Breadcrumbs The `<aava-breadcrumbs>` provides a comprehensive navigation solution for displaying hierarchical navigation paths. It supports icons, collapsible behavior, multiple sizes, custom separators, and responsive design to enhance user navigation experience.

How to use ■ Import the component and provide an array of breadcrumb items with their navigation properties.

```
import { AavaBreadcrumbsComponent } from "@aava/play-core";
```

Basic Usage ■ Simple breadcrumb navigation with text labels. Angular Preview Code

```
<aava-breadcrumbs [breadcrumbs] = "simpleBreadcrumbs"></aava-breadcrumbs>
```

simpleBreadcrumbs : BreadcrumbItem [] = [{ label : 'Home' , url : '/home' , active : false } , { label : 'Category' , url : '/category' , active : false } , { label : 'Product' , url : '/product' , active : true } ,] ;

With Icons ■ Breadcrumbs with icons for enhanced visual representation. Angular Preview Code

```
<aava-breadcrumbs [breadcrumbs] = "mixedBreadcrumbs"></aava-breadcrumbs>
```

mixedBreadcrumbs : BreadcrumbItem [] = [{ icon : 'home' , label : 'Home' , url : '/home' , active : false } , { icon : 'folder' , label : 'Category' , url : '/category' , active : false } , { icon : 'file' , label : 'Product' , url : '/product' , active : true } ,] ;

Size Variants ■ Four different size options (xs, sm, md, lg) for various design contexts. Angular Preview Code

```
<aava-breadcrumbs [breadcrumbs] = "sampleBreadcrumbs" size = "xs"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs] = "sampleBreadcrumbs" size = "sm"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs] = "sampleBreadcrumbs" size = "md"></aava-breadcrumbs><aava-breadcrumbs [breadcrumbs] = "sampleBreadcrumbs" size = "lg"></aava-breadcrumbs>
```

sampleBreadcrumbs : BreadcrumbItem [] = [{ icon : 'home' , label : 'Home' , url : '/home' , active : false } , { icon : 'folder' , label : 'Products' , url : '/products' , active : false } , { icon : 'tag' , label : 'Category' , url : '/products/category' , active : false } , { icon : 'package' , label : 'Item Details' , url : '/products/category/item' , active : true } ,] ;

Collapsible Behavior ■ Smart collapsing for long navigation paths with ellipsis expansion. Angular Preview Code

```
<aava-breadcrumbs [breadcrumbs] = "longBreadcrumbs" [collapsible] = "true" [maxVisibleItems] = "5"></aava-breadcrumbs>
```

longBreadcrumbs : BreadcrumbItem [] = [{ icon : 'home' , label : 'Home' , url : '/home' , active : false } , { icon : 'building' , label : 'Organization' , url : '/organization' , active : false } , { icon : 'folder' , label : 'Projects' , url : '/projects' , active : false } , { icon : 'folder' , label : 'Web Development' , url : '/web-dev' , active : false } , { icon : 'folder' , label : 'Frontend' , url : '/frontend' , active : false } , { icon : 'folder' , label : 'Components' , url : '/components' , active : false } , { icon : 'package' , label : 'Breadcrumbs' , url : '/breadcrumbs' , active : true } ,] ;

Custom Separator ■ Customizable separator icons and sizes. Angular Preview Code

```
Dropdown Breadcrumbs ■ Interactive breadcrumbs with dropdown menus for enhanced navigation options.
```

Angular Preview Code Features ■ Hierarchical Navigation ■ Display navigation paths with clear hierarchy Support for unlimited breadcrumb levels Automatic active state management Icon Support ■ Optional icons for each breadcrumb item Consistent icon sizing and coloring Icon-text

alignment and spacing Collapsible Behavior ■ Smart collapsing for long navigation paths Ellipsis expansion on click Configurable maximum visible items Maintains navigation context Size Variants ■ Four size options: extra small (xs), small (sm), medium (md), and large (lg) Consistent typography and spacing across all sizes Responsive sizing behavior with appropriate icon scaling Custom Separators ■ Configurable separator icons Adjustable separator sizes Consistent styling with breadcrumb items Dropdown Navigation ■ Interactive dropdown menus for breadcrumb items Support for nested navigation options Configurable dropdown styling and positioning Icon support within dropdown items Click-outside to close functionality Accessibility ■ ARIA attributes for screen readers Keyboard navigation support Focus management Semantic HTML structure Responsive Design ■ Mobile-friendly navigation Adaptive collapsing behavior Touch-optimized interactions API Reference ■ Inputs ■ Property Type Default Description breadcrumbs BreadcrumbItem[] [] Array of breadcrumb items to display size 'sm' | 'md' | 'lg' | 'xs' 'md' Size variant for the breadcrumbs separatorIcon string 'chevron-right' Icon name for breadcrumb separators separatorSize number 14 Size of separator icons in pixels dropdownIconSize number 14 Size of dropdown icons in pixels flyoutStyle Record<string, string> undefined Custom styles for dropdown flyout customStyles Record<string, string> {} Custom styles for breadcrumb container collapsible boolean true Enable collapsible behavior for long paths maxVisibleItems number 5 Maximum items to show before collapsing Interfaces ■ interface DropdownItem { label : string ; // Dropdown item label url : string ; // Dropdown item URL icon ? : string ; // Optional icon for dropdown item } interface BreadcrumbItem { label ? : string ; // Optional text label icon ? : string ; // Optional icon name url : string ; // Required URL for navigation active : boolean ; // Required active state dropdownItems ? : DropdownItem [] ; // Optional dropdown items dropdownWidth ? : number ; // Optional dropdown width } Methods ■ Method Parameters Description onBreadcrumbClick() event: Event, index: number Handle breadcrumb item click and navigation onEllipsisClick() None Expand collapsed breadcrumbs on ellipsis click onBreadcrumbKeydown() event: KeyboardEvent, index: number Handle keyboard navigation getIconColor() isLast: boolean Get appropriate icon color based on state getOriginalIndex() displayedIndex: number Map displayed index to original breadcrumb index Computed Properties ■ Property Type Description displayedBreadcrumbs BreadcrumbItem[] Current breadcrumbs to display (considering collapse) shouldCollapse boolean Whether breadcrumbs should be collapsed shouldShowEllipsis boolean Whether to show ellipsis for collapsed items CSS Custom Properties ■ Container Properties ■ Property Description --breadcrumbs-background Background color of breadcrumb container --breadcrumbs-font Font family and properties for breadcrumb container Item Properties ■ Property Description --breadcrumbs-item-text Text color for breadcrumb items --breadcrumbs-item-border-radius Border radius for breadcrumb items --breadcrumbs-item-transition Transition properties for breadcrumb items --breadcrumbs-item-hover-text Text color on hover --breadcrumbs-item-active-background Background color for active items --breadcrumbs-item-disabled-text Text color for disabled items --breadcrumbs-item-disabled-cursor Cursor for disabled items Current Item Properties ■ Property Description --breadcrumbs-item-current-text Text color for current/active item

--breadcrumbs-item-current-font-weight Font weight for current item Size Variants ■ Property Description --breadcrumbs-size-xs-font Font properties for extra small size
--breadcrumbs-size-sm-font Font properties for small size --breadcrumbs-size-md-font Font properties for medium size --breadcrumbs-size-lg-font Font properties for large size CSS Classes ■ Container Classes ■ .breadcrumb - Main breadcrumb container .breadcrumb.xs - Extra small size variant .breadcrumb.sm - Small size variant .breadcrumb.md - Medium size variant (default) .breadcrumb.lg - Large size variant Item Classes ■ .breadcrumb-item - Individual breadcrumb item container .breadcrumb-separator - Separator icon styling .breadcrumb-ellipsis - Ellipsis container for collapsed items .ellipsis - Ellipsis text styling .dropdown-container - Container for dropdown breadcrumb items .dropdown-button - Button element for dropdown triggers .dropdown-menu - Dropdown menu container .dropdown-item - Individual dropdown menu items State Classes ■ .active - Active breadcrumb item .inactive - Inactive breadcrumb item .disabled - Disabled breadcrumb item Best Practices ■ Navigation Structure ■ Keep breadcrumb paths logical and intuitive Use descriptive labels that match page titles Ensure URLs are valid and accessible Icon Usage ■ Use consistent icon naming conventions Choose icons that clearly represent navigation levels Maintain icon-text alignment and spacing Dropdown Navigation ■ Use dropdowns for breadcrumb items that have multiple sub-navigation options Provide meaningful labels and icons for dropdown items Configure appropriate dropdown width using dropdownWidth property Use flyoutStyle to customize dropdown appearance and positioning Collapsible Behavior ■ Set appropriate maxVisibleItems based on design context Test collapsing behavior with various path lengths Ensure ellipsis expansion provides meaningful navigation Accessibility ■ Provide meaningful labels for screen readers Test keyboard navigation thoroughly Ensure sufficient color contrast for all states Responsive Design ■ Test breadcrumbs on various screen sizes Consider mobile navigation patterns Optimize touch targets for mobile devices Performance ■ Avoid excessive breadcrumb levels Use efficient navigation logic Optimize icon rendering and caching Use Cases ■ E-commerce Sites ■ Product category navigation Search result breadcrumbs Shopping cart navigation Content Management Systems ■ Document hierarchy navigation Folder structure display Content editing paths Web Applications ■ User dashboard navigation Settings and configuration paths Multi-step form navigation Documentation Sites ■ Documentation hierarchy Search result navigation Related content linking Admin Panels ■ User management navigation System configuration paths Report and analytics navigation Console Applications ■ Build tool navigation with dropdown options Agent and workflow creation paths Quick access to related creation tools Accessibility ■ ARIA Support ■ Proper aria-current attributes for current page Semantic navigation structure Screen reader friendly labels Keyboard Navigation ■ Tab navigation through breadcrumb items Arrow key navigation between items Enter/Space activation for navigation Focus Management ■ Clear focus indicators Logical tab order Focus restoration after navigation Screen Reader Support ■ Descriptive labels for navigation items Context information for collapsed items Clear indication of current location Responsive Behavior ■ Mobile Optimization ■ Touch-friendly tap targets Optimized spacing for mobile screens Collapsible behavior for limited space Tablet Adaptation ■ Balanced layout for medium screens Appropriate

icon and text sizing Maintained navigation context Desktop Enhancement ■ Full navigation path display Hover effects and interactions Enhanced visual hierarchy Browser Support ■ Modern Browsers : Full support for all features CSS Grid/Flexbox : Required for layout ES6+ Features : Required for component functionality Angular Router : Required for navigation functionality

```
<aava-breadcrumbs [breadcrumbs]="simpleBreadcrumbs"></aava-breadcrumbs>
```

```
simpleBreadcrumbs: BreadcrumbItem[] = [
  { label: 'Home', url: '/home', active: false },
  { label: 'Category', url: '/category', active: false },
  { label: 'Product', url: '/product', active: true },
];
```

```
<aava-breadcrumbs [breadcrumbs]="mixedBreadcrumbs"></aava-breadcrumbs>
```

```
mixedBreadcrumbs: BreadcrumbItem[] = [
  { icon: 'home', label: 'Home', url: '/home', active: false },
  { icon: 'folder', label: 'Category', url: '/category', active: false },
  { icon: 'file', label: 'Product', url: '/product', active: true },
];
```

```
<aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="xs">
</aava-breadcrumbs>
<aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="sm">
</aava-breadcrumbs>
<aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="md">
</aava-breadcrumbs>
<aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="lg">
</aava-breadcrumbs>

---

sampleBreadcrumbs: BreadcrumbItem[] = [
  { icon: 'home', label: 'Home', url: '/home', active: false },
  { icon: 'folder', label: 'Products', url: '/products', active: false },
  {
    icon: 'tag',
    label: 'Category',
    url: '/products/category',
    active: false,
  },
  {
    icon: 'package',
    label: 'Item Details',
    url: '/products/category/item',
    active: true,
  },
];

```

```
<aava-breadcrumbs
  [breadcrumbs]="longBreadcrumbs"
  [collapsible]="true"
  [maxVisibleItems]="5"
>
</aava-breadcrumbs>

---

longBreadcrumbs: BreadcrumbItem[] = [
  { icon: 'home', label: 'Home', url: '/home', active: false },
  {
    icon: 'building',
    label: 'Organization',
    url: '/organization',
    active: false,
  },
  { icon: 'folder', label: 'Projects', url: '/projects', active: false },
  {
    icon: 'folder',
    label: 'Web Development',
    url: '/web-dev',
    active: false,
  },
  { icon: 'folder', label: 'Frontend', url: '/frontend', active: false },
  { icon: 'folder', label: 'Components', url: '/components', active: false },
  {
    icon: 'package',
    label: 'Breadcrumbs',
    url: '/breadcrumbs',
    active: true,
  },
];

```

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